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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716,945	11/18/2003	Song-Hua Shi	42P17611	7271
7590 10/28/2004			EXAMINER	
Michael A. Bernadicou			FASTOVSKY, LEONID M	
BLAKELY, SC	KOLOFF, TAYLOR	& ZAFMAN LLP		
Seventh Floor			ART UNIT	PAPER NUMBER
12400 Wilshire Boulevard			3742	
Los Angeles, C	CA 90025			

DATE MAILED: 10/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		. 1 11 11	1
	Application No.	Applicant(s)	<i>;</i>
	10/716,945	SHI, SONG-HUA	
Office Action Summary	Examiner	Art Unit	_
	Leonid M Fastovsky	3742	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address	
• •	VIO CET TO EVOIDE AMONTU	(C) EDOM	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR·1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ti only within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDON	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 31 A	August 2004.		
,	s action is non-final.		
3) Since this application is in condition for allows	ance except for formal matters, pr	osecution as to the merits is	
closed in accordance with the practice under			
Disposition of Claims			
4) Claim(s) 1-23 is/are pending in the application	٦.		
4a) Of the above claim(s) 10,11,13,22 and 23	is/are withdrawn from considerat	ion.	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-5,9,21 and 1217</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9)⊠ The specification is objected to by the Examin	er.		
10)⊠ The drawing(s) filed on 18 November 2003 is/	are: a)⊠ accepted or b)⊡ objed	cted to by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	эе 37 CFR 1.85(а).	
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is o	bjected to. See 37 CFR 1.121(d).	
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Offic	e Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documen	its have been received.		
2. Certified copies of the priority documen	nts have been received in Applica	tion No	
3. Copies of the certified copies of the price	ority documents have been receiv	ed in this National Stage	
application from the International Burea	au (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a lis	t of the certified copies not receiv	red.	
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summar Paper No(s)/Mail [
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 		Patent Application (PTO-152)	
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DETAILED ACTION

Election/Restrictions

- 1. Claims 10,11,13, 22 and 23 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Species of Fig. 3, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 8/31/04.
- 2. Applicant's election without traverse of claims 1-9, 12 and 14-21 drawn to Species of Fig. 4, in the reply filed on 8/31/04 is acknowledged.

Specification

3. The abstract of the disclosure is objected to because it contains an extraneous word "invention". Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1, 3-5, 9, 12, 14, 17 and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Quinones et al (2003/0194833).

Quinones teaches a method for heating a die and a device for a die heating, comprising: positioning a die 32 with a perimeter and a center adjacent to a connection material- epoxy 44 that is adjacent to a substrate 34, and applying heat to the die with help of a heating block 39 by nozzles 84, wherein more heat is applied to the perimeter of the dies than to the center of the die as shown in Fig. 8.

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As for claims 3, Quinones applies more heat to the perimeter of the dies than to the center of the die by altering the flow and the directionality of the movement of the material 44 in the gap 40, in paragraph [0036].

As for claim 14, Quinones applies the same amount of heat per unit area from the heating block to the edge portions of the heat nozzles as to middle portion of the heat nozzles.

As for claim 17, Quinones is inherently having a positioner in order to position a die adjacent to the heater, and the heater is adapted to apply to a substantially planar surface 41 more heat at a peripheral portion of the heat nozzle than at a middle portion of the heat nozzle.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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7. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Quinones teaches substantially the claimed invention, but is silent about a heat temperature range. It would have been obvious to one having ordinary skill in the art to use the device of Quinines, in which a desired temperature's range will be determined by the user having a specific and desired result in mind.

Allowable Subject Matter

8. Claims 6-8,15-16 and 18-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid M Fastovsky whose telephone number is 703-306-5482. The examiner can normally be reached on M-Th. 8.00 am -6.00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 703-305-5766. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Leonid M Fastovsky

Examiner Art Unit 3742

Imf

ROBIN O. EVANS